

under 37 C.F.R. § 1.136(a), and any fees required therefor (including fees for net addition of claims) are hereby authorized to be charged to our Deposit Account No. 19-0036.

*Amendments*

*In the Claims:*

Please add the following claims:

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~~2.~~ A telephone, comprising:

a down-converter, comprising:

a switch;

a storage device coupled to said switch; and

a control signal generator coupled to said switch.


3. The telephone of claim 2, wherein said telephone is a cordless telephone.

4. The telephone of claim 2, wherein said telephone is a cellular telephone.

5. The telephone of claim 2, wherein said telephone is a satellite telephone.

*ACM*

6. The telephone of claim 2, further comprising a transceiver, wherein said down-converter is a portion of said transceiver.
7. The telephone of claim 2, further comprising an up-converter, said up-converter comprising:  
a second switch coupled to a bias signal and a control signal.
8. An interface for enabling communication with a data communication network, comprising:  
a down-converter, comprising:  
a switch;  
a storage device coupled to said switch; and  
a control signal generator coupled to said switch.
9. The interface of claim 8, further comprising a transceiver, wherein said down-converter is a portion of said transceiver.
10. The interface of claim 8, further comprising an up-converter, said up-converter comprising:  
a second switch coupled to a bias signal and a control signal.
11. The interface of claim 8, wherein said interface is implemented using one or more integrated circuits.

12. The interface of claim 8, wherein said data communication network is a local area network (LAN).
13. The interface of claim 12, wherein said down-converter operates over wireless links, such that said data communication network is a wireless local area network (WLAN).
14. The interface of claim 8, wherein said data communication network is a wide area network (WAN).
15. The interface of claim 14, wherein said down-converter operates over wireless links, such that said data communication network is a wireless wide area network (WWAN).
-  16. A computer, comprising:  
interface for enabling said computer to communicate over a data communication network, said interface including a down-converter that comprises:  
a switch;  
a storage device coupled to said switch; and  
a control signal generator coupled to said switch.
17. The computer of claim 16, wherein said interface further comprises a transceiver, wherein said down-converter is a portion of said transceiver.

18. The computer of claim 16, wherein said interface further comprises an up-converter, said up-converter comprising:  
a second switch coupled to a bias signal and a control signal.
19. The computer of claim 16, wherein said interface is implemented using one or more integrated circuits.
20. The computer of claim 16, wherein said data communication network is a local area network (LAN).
21. The computer of claim 20, wherein said down-converter operates over wireless links, such that said data communication network is a wireless local area network (WLAN).
22. The computer of claim 16, wherein said data communication network is a wide area network (WAN).
23. The computer of claim 22, wherein said down-converter operates over wireless links, such that said data communication network is a wireless wide area network (WWAN).
- ~~24.~~ A data communication network, comprising:

one or more data processing devices each comprising at least one interface for enabling communication therebetween, said interface including a down-converter that comprises:

- a switch;
- a storage device coupled to said switch; and
- a control signal generator coupled to said switch.

25. The data communication network of claim 24, wherein said interface further comprises a transceiver, wherein said down-converter is a portion of said transceiver.
26. The data communication network of claim 24, wherein said interface further comprises an up-converter, said up-converter comprising:  
a second switch coupled to a bias signal and a control signal.
27. The data communication network of claim 24, wherein said interface is implemented using one or more integrated circuits.
28. The data communication network of claim 24, wherein said data communication network is a local area network (LAN).

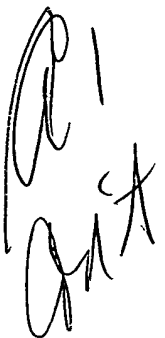
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29. The data communication network of claim 28, wherein said down-converter operates over wireless links, such that said data communication network is a wireless local area network (WLAN).
30. The data communication network of claim 24, wherein said data communication network is a wide area network (WAN).
31. The data communication network of claim 30, wherein said down-converter operates over wireless links, such that said data communication network is a wireless wide area network (WWAN).
32. A method for communication in a telephone, comprising the steps of:
- (1) receiving a first communication signal; and
  - (2) down-converting said first communication signal to generate a second communication signal, said second communication signal having a lower frequency than said first communication signal, using a switch, a storage device coupled to said switch, and a control signal generator coupled to said switch.
33. The method of claim 32, wherein said telephone is a cordless telephone.
34. The method of claim 32, wherein said telephone is a cellular telephone.

35. The method of claim 32, wherein said telephone is a satellite telephone.

36. The method of claim 32, further comprising the step of:

- (3) up-converting a third signal to generate a fourth signal, using a second switch coupled to a bias signal and a control signal.

 37. A method in an interface for enabling communication with a data communication network, comprising the steps of:

- (1) receiving a first signal; and
- (2) down-converting said first signal to a second signal, using a down-converter that comprises a switch, a storage device coupled to said switch, and a control signal generator coupled to said switch.

38. The method of claim 37, wherein said data communication network is a local area network (LAN).

39. The method of claim 38, wherein said down-converter operates over wireless links, such that said data communication network is a wireless local area network (WLAN).

40. The method of claim 37, wherein said data communication network is a wide area network (WAN).

41. The method of claim 40, wherein said down-converter operates over wireless links, such that said data communication network is a wireless wide area network (WWAN).
- ~~42.~~ A method in a computer for enabling communication over a data communication network, comprising the steps of:
- (1) receiving a first signal; and
  - (2) down-converting the first signal to a second signal, using a switch, a storage device coupled to said switch, and a control signal generator coupled to said switch.
43. The method of claim 42, wherein said data communication network is a local area network (LAN).
44. The method of claim 43, wherein said down-converter operates over wireless links, such that said data communication network is a wireless local area network (WLAN).
45. The method of claim 42, wherein said data communication network is a wide area network (WAN).

46. The method of claim 45, wherein said down-converter operates over wireless links, such that said data communication network is a wireless wide area network (WWAN).--
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Please cancel claim 1 without prejudice or disclaimer.

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